

ABSTRACT

A device for aligning a first and a second shell mold comprises a first gripper for holding the first shell mold, a second gripper for holding the second shell mold, and a centering station. Both grippers can be displaced relative to one another and relative to the centering station along a predetermined axis and can rotate individually as well as synchronously about the axis. The centering station comprises a supporting body, which supports spring elements arranged along a circle, said axis running through the center of the circle. For centering, the shell mold is moved into the centering station by the gripper and then removed from the gripper so that the shell mold is held solely by the spring elements. The radial forces of the spring elements uniformly acting upon the shell mold from all sides cause the shell mold to be displaced into the center of gravity of the forces. Afterwards, the shell mold is gripped once again by the gripper and moved out from the centering station.